AMENDMENT TO THE SPECIFICATION

Please amend paragraph [0005] on page 2 as follows:

[0005] The present invention (hereinafter referred to as "unit monitoring toolset") is a method to monitor and analyze the performance of a hydrocarbon-processing unit such as a pipestill or hydrocracker unit. The method may also be used to monitor and analyze the performance of other refinery units including distillation units, hydrotreating units, catalytic cracking units, lubricating oil units and reforming units. For distillation units, the analysis uses equations that relate to the blending of feeds of different crude types, calculations of flash zone performance, hydraulic performance of tower sections, and hydrotreating. For hydrotreating units, the analysis uses equations that relate to catalyst performance and activation, and hydrogen purity. For catalytic cracking units, the analysis uses equations that relate to bed fluidization, catalyst circulation, catalyst additions, cracking estimations, emissions and regeneration. For lubricating oil units, the analysis uses equations that relate to extract and raffinate efficiency, composition impacts of qualities such as wax, additive use, and performance limits that impact qualities. For reforming units, the analysis uses equations that relate to catalyst performance, recycle gas quantity and quality, and regeneration effectiveness.